CentOS 数据库 MySql 安装

版本: mysql-5.7.20-1.el7.x86_64.rpm-bundle

一、 数据库安装

- 1. 将 "mysql-5.7.20-1.el7.x86_64.rpm-bundle.tar" 拷到 CentOs 中,并解压 tar 包 # tar xvf mysql-5.7.20-1.el7.x86 64.rpm-bundle.tar
- 2. 删除系统中原有的 mysql-libs

yum remove mysql-libs

Package	與构	版本	EM.	大小
正在删除: mariadb-libs	x86_64	1:5.5.56-2.el7	Øanaconda	4.4 M
为依赖而移除: postfix	x86_64	2:2.10.1-6.el7	@anaconda	12 M
事务板要				

移除 1 软件包 (+1 依赖软件包)

基質((((*) 10/N)) y Domanloading packages: Running transaction check Running transaction ceeded Running transaction E在智禄: 2:postffx-2.10.1-6.87.886.66 正在智禄: 1:mariadb-11bs-5.56-2.487.9 施七中: 1:mariadb-11bs-5.56-2.487.9

1/2 2/2 1/2

删除: mariadb-libs.x86_64 1:5.5.56-2.el7 作为依赖被删除: postfix.x86_64 2:2.10.1-6.el7

兆毕!

3. 安装 common

rpm -ivh mysql-community-common-5.7.20-1.el7.x86_64.rpm

4. 安装 libs

rpm -ivh mysql-community-libs-5.7.20-1.el7.x86_64.rpm

5. 安装 libs-compat

rpm -ivh mysql-community-libs-compat-5.7.20-1.el7.x86_64.rpm

6. 安装 client

rpm -ivh mysql-community-client-5.7.20-1.el7.x86 64.rpm

- 7. 将"libaio-0.3.107-10.el6.x86_64.rpm"拷到 CentOs 中,并安装 libaio #rpm-ivh libaio-0.3.107-10.el6.x86_64.rpm
- 8. 安装 server

rpm -ivh mysql-community-server-5.7.20-1.el7.x86_64.rpm

二、 服务相关

1. 启动服务:

systemctl start mysqld

2. 查询服务:

systemctl status mysqld

```
[root@www mýsql-5.7.20-1.el7.x86_64.rpm-bundle]# sýstemctl status mysqld

* mysqld.service - MysQL Server
Loaded: loaded (Jusr/lib/systemd/system/mysqld.service; enabled; vendor preset: disabled)
Active: active (running) since = 2018-01-09 15:04:40 CST; 1h 9min ago
DOCS: man:mysqld(8)
http://dev.mysql.com/doc/refman/en/using-systemd.html
Process: 2264 ExectStart=/usr/sbin/mysqld_-daemonize --pid-file=/var/run/mysqld/mysqld.pid $MYSQLD_OPTS (code=exited, status=0/SUCCESS)
Process: 2190 ExectStart=/usr/sbin/mysqld_pre_systemd (code=exited, status=0/SUCCESS)
Main PID: 2267 (mysqld)
CGroup: /system.slice/mysqld.service
--2267 /usr/sbin/mysqld --daemonize --pid-file=/var/run/mysqld/mysqld.pid

1月 09 15:04:35 www systemd[1]: Starting MySQL Server...

如以上图,说明服务启动成功。
```

3. 设置开机启动:

systemctl enable mysqld

systemctl daemon-reload

三、 数据库设置

- 1. 修改 root 密码
 - (1) 查询安装时默认密码:

grep 'temporary password' /var/log/mysqld.log

查询结果如下图:

[root@www mysql-5.7.20-1.el7.x86_64.rpm-bundle]# grep 'temporary password' /var/log/mysqld.log 2018-01-09707:04:36.385032Z_1 [Note] A temporary password is generated for root@localhost: pagiz/mkgub/

(2) 登录:

mysql -u root -p (1 中的结果 "pB&1Z/MkBUb/")

(3) 修改密码:

mysql>set password for 'root'@'localhost'=password('0p;/(OL>');

2. 授予外部访问权限

mysql> GRANT ALL PRIVILEGES ON *.* TO 'root'@'%' IDENTIFIED BY '0p;/(OL>' WITH GRANT OPTION;

- 3. 防火墙打开默认 3306 端口,参见《防火墙设置》;
- 4. 修改字符集

vim /etc/my.cnf

添加以下信息:

```
[mysqld]
# Remove leading # and set to the amount of RAM for the most important data
# cache in MySQL. Start at 70% of total RAM for dedicated server, else 10%.
# innodb buffer pool size = 128M
# Remove leading # to turn on a very important data integrity option: logging
# changes to the binary log between backups.
# log_bin
#
# Remove leading # to set options mainly useful for reporting servers.
# The server defaults are faster for transactions and fast SELECTs.
# Adjust sizes as needed, experiment to find the optimal values.
# join_buffer_size = 128M
# sort_buffer_size = 2M
# read_rnd_buffer_size = 2M
datadir=/var/lib/mysql
socket=/var/lib/mysql/mysql.sock
# Disabling symbolic-links is recommended to prevent assorted security risks
symbolic-links=0
log-error=/var/log/mysqld.log
pid-file=/var/run/mysqld/mysqld.pid
sql_mode='STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_
```

ZERO,NO AUTO CREATE USER,NO ENGINE SUBSTITUTION'

```
[client]
default-character-set=utf8

[mysql]
default-character-set=utf8

[mysqld]
init_connect='SET collation_connection = utf8_unicode_ci'
init_connect='SET NAMES utf8'
character-set-server=utf8
collation-server=utf8_unicode_ci
# 禁止 MySQL 对外部连接进行 DNS 解析 skip-grant-tables
skip-name-resolve
```

5. 重启服务

systemctl restart mysqld

6. 进入查询字符集,查询命名及结果如下:

mysql> show variables like '%character%';

mysql> show variables like '%character%';

Variable_name	Value
character_set_client character_set_connection character_set_database character_set_filesystem character_set_results character_set_server character_set_system character_sets_dir	utf8 utf8 utf8 binary utf8 utf8 utf8 utf8 utf8 utf8

四、 用户管理

1. 添加用户:

mysql -u root -p (输入密码 0p;/(OL>)

mysql> CREATE USER 'oip2018'@'%' IDENTIFIED BY '9ol.*IK<';

2. 新建数据库: hos_op

通过 navicat 创建,字符集选 UTF-8

3. 添加权限:

mysql> grant select,insert,update,delete on hos_op.* to oip2018@"%";

五、 其它

1. 查询数据库端口:

#show global variables like 'port';

2. 查询密码简略:

mysql> show variables like '%password%';

mysql> show variables like '%password%';

4	
variable_name	Value
default_password_lifetime disconnect_on_expired_password log_builtin_as_identified_by_password mysql_native_password_proxy_users old_passwords report_password	ONOFF
sha256_password_proxy_users validate_password_check_user_name validate_password_dictionary_file	OFF OFF
validate_password_length validate_password_mixed_case_count validate_password_number_count validate_password_policy validate_password_special_char_count	8 1 1 MEDIUM 1
+	

14 rows in set (0.02 sec)

validate_password_dictionary_file: 密码策略文件,策略为 STRONG 才需要 validate_password_length: 密码最少长度 validate_password_mixed_case_count: 大小写字符长度,至少 1 个 validate_password_number_count: 数字至少 1 个 validate_password_policy: 密码策略,默认为 MEDIUM 策略 validate_password_special_char_count: 特殊字符至少 1 个

3. 系统内配置及路径:

配置文件: /etc/my.cnf

日志文件: /var/log//var/log/mysqld.log

服务启动脚本:/usr/lib/systemd/system/mysqld.service

socket 文件: /var/run/mysqld/mysqld.pid

4. my.cnf 加入 skip-name-resolve

Mysql DNS 反向解析的问题,无论连接数据库的时候采用 IP 直连还是通过域名连接,Mysql 都会尝试 从 IP 解析为 DNS 域名,而目前应用连接数据库是通过 IP 直接连接的,Mysql 仍然会花费较长时间尝试解析 IP 为 DNS 域名。